CLAIMS

A method for adaptively modifying an alert tone volume of a
 mobile communications device, the method comprising the steps of:

sampling an ambient sound level;

- 4 comparing the ambient sound level to a predetermined sound threshold;
- 6 if the ambient sound level is less than the predetermined sound threshold, reducing the volume by a predetermined amount; and
- 8 if the ambient sound level is greater than the predetermined sound threshold, increasing the volume by a predetermined amount.
- 2. The method of claim 1 wherein the mobile communications 2 device is a cellular telephone.
- 3. The method of claim 1 wherein the mobile communications 2 device is a radio.
- 4. The method of claim 1 and further including the step of generating the predetermined sound threshold by sampling an ambient sound level in response to an activation of a switch on the mobile communications device.
- 5. A method for adaptively modifying an alert tone volume of a mobile communications device, the method comprising the steps of:

sampling an ambient sound level;

- 4 comparing the ambient sound level to at least one of a plurality of predetermined thresholds;
- if the ambient sound level is less than a lowest predetermined threshold of the plurality of predetermined thresholds, adjusting the alert tone volume to a
- 8 lowest level;

if the ambient sound level is greater than the lowest predetermined threshold and less than a second predetermined threshold of the plurality of predetermined thresholds, adjusting the alert tone volume to a mid-range level; and

if the ambient sound level is greater than the second predetermined threshold, adjusting the alert tone volume to a high range level.

- 6. The method of claim 5 wherein the step of sampling the ambient sound level comprises the step of converting the ambient sound level to a digital signal.
- 7. The method of claim 5 wherein the step of sampling the
 2 ambient sound level comprises the step of determining an analog signal level of the ambient sound level.
- 8. A method for adaptively modifying an alert tone in a cellular telephone comprising a microphone and an alert vibrator, the method comprising the steps of:
- 4 receiving an incoming call notification signal; sampling an ambient sound level through the microphone;
- 6 comparing the ambient sound level to at least one of a plurality of predetermined thresholds;
- 8 if the ambient sound level is less than a lowest predetermined threshold of the plurality of predetermined thresholds, activating the alert vibrator;
- if the ambient sound level is greater than the lowest predetermined threshold and less than a second predetermined threshold of the plurality of predetermined thresholds, adjusting the alert tone volume to a low level;
- if the ambient sound level is greater than the second predetermined threshold and less than a third predetermined threshold of the plurality of predetermined thresholds, adjusting the alert tone volume to a mid-range level; and
- if the ambient sound level is greater than the third predetermined threshold, adjusting the alert tone volume to a high level.

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	9.	The met	hod of	claim	8	and	further	including	the	step	of
2	increasing the alert to	ne volume	after a	predete	rmi	ined	quantity	of alert tor	ies.		

- 10. In a mobile communications device comprising an alert
 vibrator, an alert tone generator, and a microphone, an alert tone control apparatus comprising:
- 4 means for sampling an ambient sound level through the microphone;
 means for comparing the ambient sound level to at least one of a
 plurality of predetermined thresholds;
- means for activating the alert vibrator in response to the difference between the ambient sound level and the at least one of the plurality of predetermined thresholds; and
- means for adjusting the alert tone generator in response to the difference between the ambient sound level and the at least one of the plurality of predetermined thresholds.
- 11. The apparatus of claim 10 and further including an analog to digital converter that converts an analog ambient sound signal to a digital ambient sound signal.
 - 12. In a code division multiple access cellular telephone comprising an alert vibrator, an alert tone generator, and a microphone, an alert tone control apparatus comprising:
- 4 means for sampling an ambient sound level through the microphone;
 means for comparing the ambient sound level to at least one of a
 6 plurality of predetermined thresholds;
- means for activating the alert vibrator in response to the difference 8 between the ambient sound level and the at least one of the plurality of predetermined thresholds; and

10	means for adjusting the alert tone generator in response to the	he
	difference between the ambient sound level and the at least one of the plurality	of
12	predetermined thresholds.	

- 13. The apparatus of claim 12 and further including a receiver that 2 receives an incoming call indication signal.
- 14. The apparatus of claim 13 wherein the means for sampling2 operates in response to the incoming call indication signal.
- 15. The apparatus of claim 13 and further including an analog to digital converter that converts the ambient sound level to a digital signal.
- 16. A method for adaptively modifying an alert tone volume of a
 mobile communications device, the method comprising the steps of:
 generating a sound threshold by sampling a first ambient sound level in
- 4 response to a switch activation;

receiving a call indication;

- 6 sampling a second ambient sound level;
 - comparing the second ambient sound level to the sound threshold;
- 8 if the second ambient sound level is less than the sound threshold, reducing the volume by a predetermined amount; and
- if the second ambient sound level is greater than the sound threshold, increasing the volume by a predetermined amount.